

STATISTICS (SPORTS ANALYTICS), B.S.

Requirements for a Major in Statistics (Sports Analytics)

Code	Title	Hours
Thirty-one semester hours including the following:		
Required Courses		
STA 2300	Introduction to Data Science	3
STA 2450	Introduction to Computing for the Mathematical and Statistical Sciences	4
STA 3375	Technologies for Sports Analytics	3
STA 3381	Probability and Statistics	3
STA 3386	Regression Analysis	3
STA 4330	SAS Programming for Statistical Science	3
STA 4373	Computational Methods in Statistics	3
STA 43C8	Capstone in Sports Analytics	3
Six semester hours of 3000-4000 level STA courses ¹		6
Additional Requirements		
A grade of "C" or better in courses used for the major.		
Subtotal		31
Required Courses in Other Fields		
MTH 1321	Calculus I	3
MTH 1322	Calculus II	3
MTH 2311	Linear Algebra	3
MTH 2321	Calculus III	3
Eight semester hours of science courses (with no more than 4 hours from GEO) with appropriate labs selected from the following: ²		8
BIO 1305 & BIO 1105	Modern Concepts of Bioscience and Modern Concepts of Bioscience Laboratory	
BIO 1306 & BIO 1106	Modern Concepts of Bioscience, continued and Modern Concepts of Bioscience Laboratory	
CHE 1301 & CHE 1101	Basic Principles of Modern Chemistry I and General Chemistry Laboratory I	
CHE 1302 & CHE 1102	Basic Principles of Modern Chemistry II and General Chemistry Laboratory II	
ENV 1301 & ENV 1101	Exploring Environmental Issues and An Introduction to Environmental Analysis (Lab)	
ENV 1303 & ENV 1103	Wildlife Ecology and Wildlife Ecology Laboratory Exercises	
GEO 1306 & GEO 1106	The Earth Through Time and The Earth Through Time, Laboratory	
or GEO 1307	Evolution and Extinction	
or GEO 1309	Origins of Habitable Worlds	
GEO 1401	Earthquakes and Other Natural Disasters	
GEO 1402	World Oceans	
GEO 1403	Environmental Geology	
GEO 1405	The Dynamic Earth	

GEO 1408	Earth Science
NSC 1306 & NSC 1106	Introduction to Neuroscience and Introduction to Neuroscience Laboratory
PHY 1420	General Physics I
PHY 1430	General Physics II

Total Hours **51**

¹ STA 4V90 Special Topics in Statistics may be taken for a maximum of 6 hours.

² Each course must apply to a major in its department.